

To: 'Anurag Mishra'[Anurag.Mishra@respec.com]; 'Paul, Sabu'[SPaul@mbakerintl.com]
Cc: 'Tony Donigian'[Tony.Donigian@respec.com]
From: Shaikh, Taimur
Sent: Thur 3/1/2018 6:28:57 PM
Subject: RE: EXTERNAL: RE: Reduction scenario results for EFDC

72% it is.

Thanks Anurag.

Taim.

Taimur A. Shaikh, Ph.D.

Assessment, Listing, and TMDL Section (6WQ-PT)

Water Division | EPA Region 6



From: Anurag Mishra [mailto:Anurag.Mishra@respec.com]

Sent: Wednesday, February 28, 2018 11:54 PM

To: Paul, Sabu ; Shaikh, Taimur

Cc: Tony Donigian

Subject: RE: EXTERNAL: RE: Reduction scenario results for EFDC

With 72% Global Reduction, the max of 30-day Geomean at state line is 0.0373mg/L.

With 73% Global Reduction, the max of 30-day Geomean at state line is 0.0363mg/L.

Depending upon the number of significant digits we are looking at, we can select 72 or 73% Global Reduction.

~A

ANURAG MISHRA

650.962.1864 office // 650.395.7224 cell

From: Paul, Sabu [mailto:SPaul@mbakerintl.com]

Sent: Wednesday, February 28, 2018 7:33 AM

To: Anurag Mishra <Anurag.Mishra@respec.com>; Shaikh Taimur <Shaikh.Taimur@epa.gov>

Cc: Tony Donigian <Tony.Donigian@respec.com>

Subject: RE: EXTERNAL: RE: Reduction scenario results for EFDC

Anurag,

Thanks for sending these files. I am guessing we are running these with the 2015 point sources. Should we run the model with point sources at their permit level with design flow? Do you know how they compare – I mean the 2015 load and flow versus the permit/design flow?

Regards,

Sabu.

From: Anurag Mishra [mailto:Anurag.Mishra@respec.com]

Sent: Tuesday, February 27, 2018 6:56 PM

To: Paul, Sabu <SPaul@mbakerintl.com>; Shaikh Taimur <Shaikh.Taimur@epa.gov>

Cc: Tony Donigian <Tony.Donigian@respec.com>

Subject: RE: EXTERNAL: RE: Reduction scenario results for EFDC

Sabu

The EFDC output for the two scenarios is attached. Both folders have respective UCI files in them as well.

Thanks

~A

ANURAG MISHRA

650.962.1864 office // 650.395.7224 cell

From: Paul, Sabu [mailto:SPaul@mbakerintl.com]

Sent: Tuesday, February 27, 2018 1:12 PM

To: Anurag Mishra <Anurag.Mishra@respec.com>; Shaikh Taimur <Shaikh.Taimur@epa.gov>

Cc: Tony Donigian <Tony.Donigian@respec.com>

Subject: RE: EXTERNAL: RE: Reduction scenario results for EFDC

Anurag,

Please go ahead and generate the results for 75/99 scenario also.

Regards,

Sabu.

From: Anurag Mishra [mailto:Anurag.Mishra@respec.com]

Sent: Tuesday, February 27, 2018 3:42 PM

To: Paul, Sabu <SPaul@mbakerintl.com>; Shaikh Taimur <Shaikh.Taimur@epa.gov>

Cc: Tony Donigian <Tony.Donigian@respec.com>

Subject: EXTERNAL: RE: Reduction scenario results for EFDC

Sabu/Taim/Tony

I updated the table with the violation frequency for the baseline values as well.

Sabu, I generated the EFDC results for the scenario with 75% global reductions. Tony will QA/QC that run and I will send it to you after that.

Thanks

~A

max(30-day GeoMean) for TP Concentration [Standard is 0.037 mg/l]													
DSN ID	Location	Location Name	State	Baseline (Sim0)	Frequency of Violations	Percent Violations	69% Global Reduction (Sim1)	Frequency of Violations	Percent Violations	75% Global Reduction	Frequency of Violations	Percent Violations	75% AR Reduction and 90% OK Reduction)
6320	630	Illinois River at State Line	AR	0.119	6527	99.7	0.040	17	0.3	0.034	0	0.0	0.034
9635	635		OK	0.119	6527	99.7	0.040	17	0.3	0.034	0	0.0	0.034
9637	637		OK	0.121	6510	99.5	0.041	13	0.2	0.035	0	0.0	0.035
6420	640		OK	0.121	6518	99.6	0.041	17	0.3	0.035	0	0.0	0.035
9650	650		OK	0.123	6513	99.5	0.042	19	0.3	0.036	0	0.0	0.035
9660	660		OK	0.129	6521	99.6	0.045	59	0.9	0.039	3	0.0	0.037
9670	670		OK	0.133	6518	99.6	0.047	70	1.1	0.040	5	0.1	0.038
9800	800		OK	0.144	6536	99.8	0.050	166	2.5	0.043	16	0.2	0.039
9810	810		OK	0.145	6536	99.8	0.051	165	2.5	0.043	20	0.3	0.039
9820	820		OK	0.146	6535	99.8	0.051	165	2.5	0.044	22	0.3	0.039
9830	830		OK	0.147	6536	99.8	0.052	188	2.9	0.045	31	0.5	0.040
9840	840		OK	0.150	6536	99.8	0.053	185	2.8	0.046	36	0.5	0.040
9850	850		OK	0.153	6536	99.8	0.055	233	3.6	0.047	48	0.7	0.041
9860	860		OK	0.159	6540	99.9	0.060	406	6.2	0.052	115	1.8	0.046
8690	870	Illinois River at Tahlequah	OK	0.165	6539	99.9	0.062	429	6.6	0.054	134	2.0	0.047
9880	880		OK	0.170	6540	99.9	0.064	502	7.7	0.056	165	2.5	0.049
9890	890		OK	0.174	6541	99.9	0.066	607	9.3	0.058	186	2.8	0.049

From: Anurag Mishra
Sent: Monday, February 26, 2018 3:59 PM
To: 'Paul, Sabu' <SPaul@mbakerintl.com>; 'Shaikh Taimur' <Shaikh.Taimur@epa.gov>
Cc: Tony Donigian <Tony.Donigian@respec.com>
Subject: RE: Reduction scenario results for EFDC
Sabu

I will apply the 75% Global Reduction and generate the output. In the meanwhile, please find the Scenario Comparisons with the frequency of violations as you requested last week. Let me know if you need me to send the whole workbook.

Thanks
~A

max(30-day GeoMean) for TP Concentration [Standard is 0.037 mg/l]													
DSN ID	Location	Location Name	State	Baseline (Sim0)	69% Global Reduction (Sim1)	Frequency of Violations	Percent Violations	75% Global Reduction	Frequency of Violations	Percent Violations	75% AR Reduction and 90% OK Reduction)	Frequency of Violations	Percent Violations
6320	630	Illinois River at State Line	AR	0.119	0.040	17	0.3	0.034	0	0.0	0.034	0	0.0
9635	635		OK	0.119	0.040	17	0.3	0.034	0	0.0	0.034	0	0.0
9637	637		OK	0.121	0.041	13	0.2	0.035	0	0.0	0.035	0	0.0
6420	640		OK	0.121	0.041	17	0.3	0.035	0	0.0	0.035	0	0.0
9650	650		OK	0.123	0.042	19	0.3	0.036	0	0.0	0.035	0	0.0
9660	660		OK	0.129	0.045	59	0.9	0.039	3	0.0	0.037	1	0.0
9670	670		OK	0.133	0.047	70	1.1	0.040	5	0.1	0.038	2	0.0
9800	800		OK	0.144	0.050	166	2.5	0.043	16	0.2	0.039	3	0.0
9810	810		OK	0.145	0.051	165	2.5	0.043	20	0.3	0.039	3	0.0
9820	820		OK	0.146	0.051	165	2.5	0.044	22	0.3	0.039	3	0.0
9830	830		OK	0.147	0.052	188	2.9	0.045	31	0.5	0.040	4	0.1
9840	840		OK	0.150	0.053	185	2.8	0.046	36	0.5	0.040	4	0.1
9850	850		OK	0.153	0.055	233	3.6	0.047	48	0.7	0.041	4	0.1
9860	860		OK	0.159	0.060	406	6.2	0.052	115	1.8	0.046	32	0.5
8690	870	Illinois River at Tahlequah	OK	0.165	0.062	429	6.6	0.054	134	2.0	0.047	45	0.7
9880	880		OK	0.170	0.064	502	7.7	0.056	165	2.5	0.049	62	0.9

9890	890		OK	0.174	0.066	607	9.3	0.058	186	2.8	0.049	71	1.1

ANURAG MISHRA

650.962.1864 office // 650.395.7224 cell

From: Paul, Sabu [mailto:SPaul@mbakerintl.com]
Sent: Monday, February 26, 2018 6:56 AM
To: Anurag Mishra <Anurag.Mishra@respec.com>
Cc: Tony Donigian <Tony.Donigian@respec.com>
Subject: Reduction scenario results for EFDC

Hi Anurag,
Please export the HSPF results for EFDC model corresponding to Scenario 4 (75% reduction) meeting the standards at the Stateline.
Let me know when it is ready.

Regards,
Sabu.
Sabu Paul, Ph.D, P.E., PMP

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